

Notice of Allowability

Application No.

10/825,404

Examiner

Satish S. Rampuria

Applicant(s)

RAMSEY ET AL.

Art Unit

2191

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/23/2007.
2. ☒ The allowed claim(s) is/are 1,2,4,7,9,23,24,28-30,35 and 36.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>20080104</u> |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

This action is in response to the amendment filed on 10/23/2007.

Claims 5, 6, 8, 13, 15, 26, 27, 31, 33, and 34 are previously cancelled by the Applicants.

Claims 3, 10-12, 14, and 16-22 are cancelled with this examiner's amendment.

Claims 1, 4, 23, and 30 are amended with this examiner's amendment.

Claims 1, 2, 4, 7, 9, 23-25, 28-30, and 35-36 are allowed.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Hunter E. Webb [Reg. No. 54,593] on January 4th, 2008.

In the claims

Please amend claims 1, 4, 23, 30 as follows.

Claim 1 (currently amended) A method for developing a data model in a data mining system, comprising:

providing a database table of user predefined data transformations, the data

transformations in the database table being reusable by a plurality of data models;
providing raw data from a data mining operation;

developing a data model of variables using at least one data transformation selected from the database table and the raw data; and

writing a specification for applying the data model operationally, wherein the step of writing a specification comprises writing a reusable set of instructions for applying the data model operationally,

wherein the database table of predefined data transformations associates each of the predefined data transformations with a unique identifier, a description and a validity period and wherein the developing step comprises retrieving the at least one predefined data transformation from the database table according to its unique identifier;

wherein the developing step includes determining a set of variables for a desired prediction, wherein the set of variables include at least one predefined data transformation selected from the database table; and

deriving a mathematical relationship between the set of variables.

Claim 3 (cancelled)

Claim 4 (currently amended),

At line 1, delete [claim 3] and add --claim 1--.

Claims 10-12 (cancelled)

Claim 14 (cancelled)

Claims 16-22 (cancelled)

Claim 23 (currently amended) A computerized system for developing a data model in a data mining system, comprising:

a processor and a memory, the memory includes;

a database table of user predefined data transformations, the data transformations in the database table being reusable by a plurality of data models;

a data import system for extracting raw data from a data warehouse;

a variable determination system for determining a set of variables for a desired prediction, wherein the set of variables comprises at least one predefined data transformation selected from the database table, wherein the database table of predefined data transformations associates each of the predefined data transformations with a unique identifier, a description and a validity period, and wherein the variable determination system retrieves the at least one predefined data transformation from the database table according to its unique identifier;

a model development system for developing a data model for the desired prediction using the determined variables; and

a specification development system for developing a specification for applying the data model operationally;

wherein the model development system applies the raw data to the set of variables and derives a mathematical relationship between the set of variables.

Claim 25 (cancelled)

30. (Previously Presented) A program product stored on a computer readable storage medium for developing a data model in a data mining system, which when executed, comprises:

program code for extracting raw data from a data warehouse;

program code for determining a set of variables for a desired prediction, wherein the set of variables comprises at least one predefined data transformation selected from a database table of user predefined data transformations, the data transformations in the database table being reusable by a plurality of data models;

program code for developing a data model for the desired prediction using the determined variables;

program code for developing a specification for applying the data model operationally; and

program code for outputting the data model for coding and deployment based on the specification,

wherein the database table of predefined data transformations associates each of the predefined data transformations with a unique identifier, a description and a validity period, and wherein the program code for determining retrieves the at least one predefined data transformation from the database table according to its unique identifier;

wherein the program code for developing a data model applies the raw data to the set of variables and derives a mathematical relationship between the set of variables.

Claim 32 (cancelled)

--END--

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Satish S. Rampuria whose telephone number is (571) 272-3732. The examiner can normally be reached on 8:30 am to 5:00 pm.

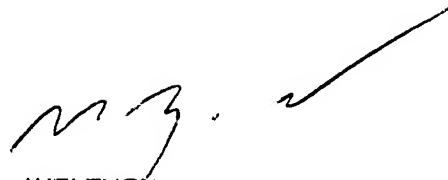
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Y. Zhen can be reached on (571) 272-3708. Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Satish S. Rampuria
Patent Examiner/Software Engineer
Art Unit 2191

A handwritten signature in black ink, appearing to read 'WZ' followed by a checkmark-like flourish.

WEI ZHEN
SUPERVISORY PATENT EXAMINER